

SEQUENCE LISTING



<110> KIENY, Marie-Paule
BALLOUL, Jean-Marc
BIZOUARNE, Nadine

<120> ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
POLYPEPTIDE WITH MODIFIED CELL LOCATION

<130> 017753-122

<140> 09/462,993

<141> 2000-04-17

<150> PCT/FR98/01576

<151> 1998-07-17

<150> FR 97/09152

<151> 1997-07-18

<160> 23

<170> PatentIn Ver. 2.2

<210> 1

<211> 243

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Derived from
human papillomavirus, strain HPV-16, E6 protein
fused F protein signals, clone E6*TMF.

<400> 1

Met Gly Leu Lys Val Asn Val Ser Ala Ile Phe Met Ala Val Leu Leu
1 5 10 15

Thr Leu Gln Thr Pro Thr Gly Gln Ile His Trp Gly Met His Gln Lys
20 25 30

Arg Thr Ala Met Phe Gln Asp Pro Gln Glu Arg Pro Arg Lys Leu Pro
35 40 45

Gln Leu Cys Thr Glu Leu Gln Thr Ile His Asp Ile Ile Leu Glu
50 55 60

Cys Val Tyr Cys Lys Gln Gln Leu Leu Arg Arg Glu Val Tyr Asp Phe
65 70 75 80

Ala Phe Arg Asp Leu Cys Ile Val Tyr Arg Asp Gly Asn Pro Tyr Ala

85

90

95

Val Cys Asp Lys Cys Leu Lys Phe Tyr Ser Lys Ile Ser Glu Tyr Arg
100 105 110

His Tyr Cys Tyr Ser Leu Tyr Gly Thr Thr Leu Glu Gln Gln Tyr Asn
115 120 125

Lys Pro Leu Cys Asp Leu Leu Ile Arg Cys Ile Asn Cys Gln Lys Pro
130 135 140

Leu Gln Arg His Leu Asp Lys Lys Gln Arg Phe His Asn Ile Arg Gly
145 150 155 160

Arg Trp Thr Gly Arg Cys Met Ser Cys Cys Arg Ser Ser Arg Thr Arg
165 170 175

Arg Glu Thr Gln Leu Gly Leu Ser Ser Thr Ser Ile Val Tyr Ile Leu
180 185 190

Ile Ala Val Cys Leu Gly Leu Ile Gly Ile Pro Ala Leu Ile Cys
195 200 205

Cys Cys Arg Gly Arg Cys Asn Lys Lys Gly Glu Gln Val Gly Met Ser
210 215 220

Arg Pro Gly Leu Lys Pro Asp Leu Thr Gly Thr Ser Lys Ser Tyr Val
225 230 235 240

Arg Ser Leu

<210> 2

<211> 185

<212> PRT

<213> Artificial Sequence

<220>

<223> Derivated from human papillomavirus, strain
HPV-16, E7 fusion signals of the rabies
glycoprotein, clone E7*TMR.

<400> 2

Met Val Pro Gln Ala Leu Leu Phe Val Pro Leu Leu Val Phe Pro Leu
1 5 10 15

Cys Phe Gly Lys Phe Pro Ile Gly Ser Met His Gly Asp Thr Pro Thr
20 25 30

Leu His Glu Tyr Met Leu Asp Leu Gln Pro Glu Thr Thr Gln Leu Asn
35 40 45

Asp Ser Ser Glu Glu Asp Glu Ile Asp Gly Pro Ala Gly Gln Ala
50 55 60

Glu Pro Asp Arg Ala His Tyr Asn Ile Val Thr Phe Cys Cys Lys Cys
65 70 75 80

Asp Ser Thr Leu Arg Leu Cys Val Gln Ser Thr His Val Asp Ile Arg
85 90 95

Thr Leu Glu Asp Leu Leu Met Gly Thr Leu Gly Ile Val Cys Pro Ile
100 105 110

Cys Ser Gln Lys Pro Arg Ser Tyr Val Leu Leu Ser Ala Gly Ala Leu
115 120 125

Thr Ala Leu Met Leu Ile Ile Phe Leu Met Thr Cys Cys Arg Arg Val
130 135 140

Asn Arg Ser Glu Pro Thr Gln His Asn Leu Arg Gly Thr Gly Arg Glu
145 150 155 160

Val Ser Val Thr Pro Gln Ser Gly Lys Ile Ile Ser Ser Trp Glu Ser
165 170 175

His Lys Ser Gly Gly Glu Thr Arg Leu
180 185

<210> 3

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Derived from human papillomavirus, strain
HPV-16, synthetic oligonucleotide oTG5118 (E7
deleted 21 26), anti-sense.

<400> 3

tctgagctgt catttaattt agttgtctct ggttgc

36

<210> 4

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Derived from rabies virus, mutagenesis
oligonucleotide oTG5745, non anti-sense

<400> 4
tgcaactcagtaatacataggatccaaatggaaatccc aa 42

<210> 5
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide oTG6390, anti-sense.

<400> 5
gtatctccatgcatggatcc tgcagggttt ctctacgt 38

<210> 6
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide oTG6880, anti-sense.

B
<400> 6
ggatccggcca tggtagatct tggttctga gaacag 36

<210> 7
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Derivative from rabies virus, strain
HPV-16, synthetic oligonucleotide oTG5377 (E6
deleted 111 to 115), anti-sense.

<400> 7
tgtccagatgtcttgcagt ggctttgac ag 32

<210> 8
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide oT10829, non anti-sense.

<400> 8

gcgcgtctca gaattatggg tctcaaggtg aacg

34

<210> 9
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide oTG10830, anti-sense.

<400> 9
cagttctt ttgggtgcatt ccccaatggg tttga

35

<210> 10
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide oTG10835, non
anti-sense.

<400> 10
atgcttagtgc tcgataaacc cagctgggtt tctctacg

38

<210> 11
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide oTG10836, anti-sense.

<400> 11
tcaaatccat tggggcatgc accaaaagag aactg

35

<210> 12
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide oTG10833, non
anti-sense.

<400> 12
cgttagagaaa cccagctggg tttatcgagc actagcat

38

<210> 13
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide oTG10834, anti-sense.

<400> 13
gcgggcatgc ggtacccatagc agcgacctta catagg

36

<210> 14
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Derived from vaccinia virus, strain modified
Ankara, synthetic oligonucleotide oTG7637 (PCR III
region), non anti-sense.

<400> 14
gggggggaat tcagtaaaact tgactaaatc tt

32

<210> 15
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Derived from vaccinia virus, strain modified
Ankara, synthetic oligonucleotide oTG7638 (PCR III
region), anti-sense.

<400> 15
ggggggggat ccgagctcac cagccaccga aagagcaat

39

<210> 16
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Derived from vaccinia virus, strain modified
Ankara, synthetic oligonucleotide oTG7635 (PCR III
region), non anti-sense.

<400> 16
ggggggggat ccggaaagtt ttataggtag tt

32

<210> 17
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Derived from vaccinia virus, strain modified
Ankara, synthetic oligonucleotide oTG7636 (PCR III
region), anti-sense.

<400> 17
gggggggaat tctttgtatt tacgtgaacg

30

<210> 18
<211> 77
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide oTG10502, non
anti-sense.

<400> 18
agcttttat tctatactta aaaaatgaaa ataaaactcga gttgtcaaag catcatctca 60
acactgacct gaggtac 77

<210> 19
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide oTG10503, anti-sense.

<400> 19
ctcaagtcaag tgttgagatg atgctttgac aactcgagtt tattttcatt ttttaagtat 60
agaataaaaa 69

<210> 20
<211> 39
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide oTG5925, anti-sense.

<400> 20
tcagatctgt cgagggatct gcagttctt ctagaggta

39

<210> 21
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide oTG5924, non anti-sense.

<400> 21
agtgaattgc tgcaggtaacc cggatccgca tcgactatcg acat

44

<210> 22
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Derived from Homo sapiens, strain Daudi cell
line, PCR primer oTG6353 (cloning B7.1), non
anti-sense.

<400> 22
tcagccccctg aattctgcgg acactgttat acagg

35

<210> 23
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Derived from Homo sapiens, strain Daudi cell
line, PCR primer oTG6352 (cloning B7.1),
anti-sense.

<400> 23
ttgaccctaa agatctgaag ccatgggccca cac

33